

ABSTRACT

A method of manufacturing a luminescent screen assembly, having a light-absorbing matrix with a plurality of substantially equally-sized openings therein, on an inner surface of a faceplate panel of a cathode-ray tube (CRT) is provided. The method include the steps of exposing a first photoresist layer to light from a light source, located relative to a central source position, as well as two symmetrical source positions located relative to the central source position. Thereafter, a second photoresist layer and a third photoresist layer are sequentially exposed to define second guardbands of light-absorbing material and third guardbands of light-absorbing material, respectively. However, the light source positions for the second photoresist layer and the third photoresist layer are located at asymmetric positions relative to the central source position.